

1033592-000005
SEQUENCE LISTING

<110> HANSSON, HANS-ARNE
JENNISCHE, EVA
LANGE, STEFAN
LON-NROTH, IVAR
ERIKSSON, PETER
PERSSON, ANDERS

<120> NOVEL USE OF ANTISECRETORY FACTOR

<130> 1003301-000258

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<150> PCT/SE04/001369

<151> 2004-09-24

<150> GB 0322645.3

<151> 2003-09-26

<160> 6

<170> PatentIn Ver. 3.3

<210> 1

<211> 382

<212> PRT

<213> Homo sapiens

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Met Val Leu Glu Ser₅ Thr Met Val Cys Val₁₀ Asp Asn Ser Glu Tyr₁₅ Met

Arg Asn Gly Asp₂₀ Phe Leu Pro Thr Arg₂₅ Leu Gln Ala Gln₃₀ Gln Asp Ala

Val Asn Ile₃₅ Val Cys His Ser Lys₄₀ Thr Arg Ser Asn₄₅ Pro Glu Asn Asn

Val Gly₅₀ Leu Ile Thr Leu Ala₅₅ Asn Asp Cys Glu Val₆₀ Leu Thr Thr Leu

Thr Pro Asp Thr Gly Arg₇₀ Ile Leu Ser Lys₇₅ Leu His Thr Val Gln Pro₈₀

Lys Gly Lys Ile₈₅ Thr Phe Cys Thr Gly Ile₉₀ Arg Val Ala His₉₅ Leu Ala

Leu Lys His Arg₁₀₀ Gln Gly Lys Asn His₁₀₅ Lys Met Arg Ile Ile₁₁₀ Ala Phe

Val Gly Ser₁₁₅ Pro Val Glu Asp Asn₁₂₀ Glu Lys Asp Leu Val₁₂₅ Lys Leu Ala

Lys Arg₁₃₀ Leu Lys Lys Glu Lys₁₃₅ Val Asn Val Asp Ile₁₄₀ Ile Asn Phe Gly

Glu Glu Glu Val Asn Thr₁₅₀ Glu Lys Leu Thr Ala₁₅₅ Phe Val Asn Thr Leu₁₆₀

Asn Gly Lys Asp Gly₁₆₅ Thr Gly Ser His₁₇₀ Leu Val Thr Val Pro₁₇₅ Pro Gly

Pro Ser Leu Ala₁₈₀ Asp Ala Leu Ile Ser₁₈₅ Ser Pro Ile Leu Ala₁₉₀ Gly Glu

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Gly Gly Ala Met Leu Gly Leu Gly Ala Ser Asp Phe Glu Phe Gly Val
 195 200 205
 Asp Pro Ser Ala Asp Pro Glu Leu Ala Leu Ala Leu Arg Val Ser Met
 210 215 220
 Glu Glu Gln Arg His Ala Gly Gly Gly Ala Arg Arg Ala Ala Arg Ala
 225 230 235 240
 Ser Ala Ala Glu Ala Gly Ile Ala Thr Thr Gly Thr Glu Asp Ser Asp
 245 250 255
 Asp Ala Leu Leu Lys Met Thr Ile Ser Gln Gln Glu Phe Gly Arg Thr
 260 265 270
 Gly Leu Pro Asp Leu Ser Ser Ser Thr Glu Glu Glu Glu Ile Ala Tyr
 275 280 285
 Ala Met Gln Met Ser Leu Gln Gly Ala Glu Phe Gly Gln Ala Glu Ser
 290 295 300
 Ala Asp Ile Asp Ala Ser Ser Ala Met Asp Thr Ser Glu Pro Ala Lys
 305 310 315 320
 Glu Glu Asp Asp Tyr Asp Val Met Gln Asp Pro Glu Phe Leu Gln Ser
 325 330 335
 Val Leu Glu Asn Leu Pro Gly Val Asp Pro Asn Asn Glu Ala Ile Arg
 340 345 350
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 Thr Arg Arg Arg Lys Thr Arg Ser Glu Thr Gly Gly Lys Gly
 370 375 380

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<220>
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 Met Val Leu Glu Ser Thr Met Val Cys Val Asp Asn Ser Glu Tyr 15
 1 5 10
 atg cgg aat gga gac ttc tta ccc acc agg ctg cag gcc cag cag gat 155
 Met Arg Asn Gly Asp Phe Leu Pro Thr Arg Leu Gln Ala Gln Gln Asp 20 25 30
 gct gtc aac ata gtt tgt cat tca aag acc cgc agc aac cct gag aac 203
 Ala Val Asn Ile Val Cys His Ser Lys Thr Arg Ser Asn Pro Glu Asn 35 40 45
 aac gtg ggc ctt atc aca ctg gct aat gac tgt gaa gtg ctg acc aca 251
 Asn Val Gly Leu Ile Thr Leu Ala Asn Asp Cys Glu Val Leu Thr Thr 50 55 60
 ctc acc cca gac act ggc cgt atc ctg tcc aag cta cat act gtc caa 299
 Leu Thr Pro Asp Thr Gly Arg Ile Leu Ser Lys Leu His Thr Val Gln 65 70 75

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ccc Pro 80	aag Lys	ggc Gly	aag Lys	atc Ile	acc Thr 85	ttc Phe	tgc Cys	acg Thr	ggc Gly	atc Ile 90	cgc Arg	gtg Val	gcc Ala	cat His	ctg Leu 95	347
gct Ala	ctg Leu	aag Lys	cac His	cga Arg 100	caa Gln	ggc Gly	aag Lys	aat Asn	cac His 105	aag Lys	atg Met	cgc Arg	atc Ile 110	att Ile 110	gcc Ala	395
ttt Phe	gtg Val	gga Gly	agc Ser 115	cca Pro	gtg Val	gag Glu	gac Asp	aat Asn 120	gag Glu	aag Lys	gat Asp	ctg Leu 125	gtg Val 125	aaa Lys	ctg Leu	443
gct Ala	aaa Lys	cgc Arg 130	ctc Leu	aag Lys	aag Lys	gag Glu	aaa Lys 135	gta Val	aat Asn	gtt Val	gac Asp	att Ile 140	atc Ile	aat Asn	ttt Phe	491
ggg Gly	gaa Glu 145	gag Glu	gag Glu	gtg Val	aac Asn	aca Thr 150	gaa Glu	aag Lys	ctg Leu	aca Thr	gcc Ala 155	ttt Phe	gta Val	aac Asn	acg Thr	539
ttg Leu 160	aat Asn	ggc Gly	aaa Lys	gat Asp	gga Gly 165	acc Thr	ggg Gly	tct Ser	cat His	ctg Leu 170	gtg Val	aca Thr	gtg Val	cct Pro	cct Pro 175	587
ggg Gly	ccc Pro	agt Ser	ttg Leu	gct Ala 180	gat Asp	gct Ala	ctc Leu	atc Ile	agt Ser 185	tct Ser	ccg Pro	att Ile	ttg Leu	gct Ala 190	ggg Gly	635
gaa Glu	ggg Gly	ggg Gly	gcc Ala 195	atg Met	ctg Leu	ggg Gly	ctt Leu	ggg Gly 200	gcc Ala	agt Ser	gac Asp	ttt Phe	gaa Glu 205	ttt Phe	gga Gly	683
gta Val	gat Asp	ccc Pro 210	agt Ser	gct Ala	gat Asp	cct Pro	gag Glu 215	ctg Leu	gcc Ala	ttg Leu	gcc Ala	ctt Leu 220	cgt Arg	gta Val	tct Ser	731
atg Met	gaa Glu 225	gag Glu	cag Gln	cgg Arg	cac His	gca Ala 230	gga Gly	gga Gly	gga Gly	gcg Ala	cgg Arg 235	cgg Arg	gca Ala	gct Ala	cga Arg	779
gct Ala 240	tct Ser	gct Ala	gct Ala	gag Glu	gcc Ala 245	ggg Gly	att Ile	gct Ala	acg Thr	act Thr 250	ggg Gly	act Thr	gaa Glu	gac Asp	tca Ser 255	827
gac Asp	gat Asp	gcc Ala	ctg Leu	ctg Leu 260	aag Lys	atg Met	acc Thr	atc Ile	agc Ser 265	cag Gln	caa Gln	gag Glu	ttt Phe	ggc Gly 270	cgc Arg	875
act Thr	ggg Gly	ctt Leu	cct Pro 275	gac Asp	cta Leu	agc Ser	agt Ser	agt Ser 280	act Thr	gag Glu	gaa Glu	gag Glu	gag Glu 285	att Ile	gct Ala	923
tat Tyr	gcc Ala	atg Met 290	cag Gln	atg Met	tcc Ser	ctg Leu	cag Gln 295	gga Gly	gca Ala	gag Glu	ttt Phe	ggc Gly 300	cag Gln	gcg Ala	gaa Glu	971
tca Ser	gca Ala 305	gac Asp	att Ile	gat Asp	gcc Ala	agc Ser 310	tca Ser	gct Ala	atg Met	gac Asp	aca Thr 315	tct Ser	gag Glu	cca Pro	gcc Ala	1019
aag Lys 320	gag Glu	gag Glu	gat Asp	gat Asp	tac Tyr 325	gac Asp	gtg Val	atg Met	cag Gln	gac Asp 330	ccc Pro	gag Glu	ttc Phe	ctt Leu	cag Gln 335	1067
agt Ser	gtc Val	cta Leu	gag Glu	aac Asn 340	ctc Leu	cca Pro	ggg Gly	gtg Val	gat Asp 345	ccc Pro	aac Asn	aat Asn	gaa Glu	gcc Ala 350	att Ile	1115

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cga aat gct atg ggc tcc ctg cct ccc agg cca cca agg acg gca aga 1163
Arg Asn Ala Met Gly Ser Leu Pro Pro Arg Pro Pro Arg Thr Ala Arg
355 360 365

agg aca aga agg agg aag aca aga agt gag act gga ggg aaa ggg 1208
Arg Thr Arg Arg Arg Lys Thr Arg Ser Glu Thr Gly Gly Lys Gly
370 375 380

tagctgagtc tgcttagggg actgggaagc acggaatata gggttagatg tggttatctg 1268

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<220>
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<222> (38)
<223> His, Arg or Lys

<220>
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<223> Ser or Leu

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<223> This region may or may not be present

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Val Asn Ile Val Cys Xaa Xaa Lys Xaa Arg Ser Asn Pro Glu
35 40 45

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<220>
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<222> (43)..(51)
<223> This region may or may not be present

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Val Gly Leu
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<220>
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20 25 30
Val Asn Ile Val Cys Xaa Xaa Lys Xaa Arg Ser Asn Pro Glu Asn Asn
35 40 45
Val Gly Leu Ile Thr Leu Ala Asn Asp Cys Glu Val Leu Thr Thr Leu
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Thr Pro Asp Thr Gly Arg Ile Leu Ser Lys Leu His Thr Val Gln Pro
65 70 75 80

<210> 6
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<212> PRT
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amino acid sequence

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20 25 30
Val Asn Ile Val Cys Xaa Xaa Lys Xaa Arg Ser Asn Pro Glu Asn Asn
35 40 45
Val Gly Leu Ile Thr Leu Ala Asn Asp Cys Glu Val Leu Thr Thr Leu
50 55 60

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Thr 65	Pro	Asp	Thr	Gly	Arg 70	Ile	Leu	Ser	Lys	Leu 75	His	Thr	Val	Gln	Pro 80
Lys	Gly	Lys	Ile	Thr 85	Phe	Cys	Thr	Gly	Ile 90	Arg	Val	Ala	His	Leu 95	Ala
Leu	Lys	His	Arg 100	Gln	Gly	Lys	Asn	His 105	Lys	Met	Arg	Ile	Ile 110	Ala	Phe
Val	Gly	Ser 115	Pro	Val	Glu	Asp	Asn 120	Glu	Lys	Asp	Leu	Val 125	Lys	Leu	Ala
Lys	Arg 130	Leu	Lys	Lys	Glu	Lys 135	Val	Asn	Val	Asp	Ile 140	Ile	Asn	Phe	Gly
Glu 145	Glu	Glu	Val	Asn	Thr 150	Glu	Lys	Leu	Thr	Ala 155	Phe	Val	Asn	Thr	Leu 160
Asn	Gly	Lys													